

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND USE

Operator: License # 5952
Name: Amoco Production Company
Address P.O. Box 800, Rm. 2118
City/State/Zip Denver, CO 80201

Purchaser: _____
Operator Contact Person: Julie Victor
Phone (303) 830-4009
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: _____

Designate Type of Completion
 New Well _____ Re-Entry _____ Workover _____
Oil _____ SWD _____ SLOW _____ Temp.Abd.
 Gas, _____ ENHR _____ SIGW _____
Dry _____ Other (Core, WSW, Expl., Cathodic, etc.) _____

If Workover/Re-entry: old well info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
_____ Plug Back _____ PSTO _____
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SWD or Inj?) _____ Docket No. _____
6/6/93 6/8/93 7/9/93
Spud Date Date Reached TD Completion Date

API No. 15 - 129-21188-0000 ORIGINAL
County Morton
NW - NW - SE - SE Sec. 29 Twp. 32 Rge. 39 East West:
1250 Feet from N (circle one) Line of Section
1250 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW, or SW (circle one)
Lease Name Werhahn G.U. Well # 3HI
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3203' KB 3214'
Total Depth 2652' PBTD 2649'
Amount of Surface Pipe Set and Cemented at 595 Feet
Multiple Stage Cementing Collar Used? _____ Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt

Drilling Fluid Management Plan 10-18-93
(Data must be collected from the Reserve Pit)
Chloride content 5800 ppm Fluid Volume 2140 bbls
Dewatering method used dried and filled
Location of fluid disposal if hauled offsite: _____

Operator Name _____
Lease Name _____ License No. _____
_____ Quarter Sec. _____ Twp. _____ S.Rng. _____ E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months.). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete to the best of my knowledge.

Signature Julie Victor
Title Business Analyst Date 10/6/93
Subscribed and sworn to before me this 6 day of October, 1993
Notary Public Natalie M. Ward
Date Commission Expires December 26, 1994

K.C.C. OFFICE USE ONLY
F Letter of confidentiality Attached
C Wireline Log Received
C _____ Drillers Timelog Received
Distribution
 KCC RECEIVED _____ NGPA
STATE CORPORATION COMMISSION Other (Specify)
OCT 11 1993 10-11-93

PI

Operator Name Amoco Production Company

Lease Name

Werhai. G.U.

Well #

3H3

Sec. 29 Twp. 32 Rge. 39

East

West

County

Morton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herington	2,384'	
List All E. Logs Run:		Krider	2,408'	
		Winfield	2,450'	
		Towanda	2,528'	
		Ft. Riley	2,598'	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	595'	Class C	320	
Production	7-7/8"	5-1/2"	15.5#	2,652'	Class C	450	

Purpose:	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
4	2384-2388'; 2412-2430'; 2450-2488';		Frac with 245,100# 12/20 Brady	
	2528-2566'; 2598-2624'		sand and 69,958 gal. gel	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
N/A					
Date of First, Resumed Production, SWD or Inj	Producing Method				
SI	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		300			

Disposition of Gas:	METHOD OF COMPLETION			Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf.	<input type="checkbox"/> Dually Comp.	<input type="checkbox"/> Commingled	<u>2384-2624'</u>
(If vented, submit ACO-18)	<input type="checkbox"/> Other (Specify) _____			

ORIGINAL

DRILLERS LOG

AMOCO PRODUCTION COMPANY
WERHAHN GU NO. 3 H1
SECTION 29-T32S-R39W
MORTON COUNTY, KANSAS

COMMENCED: 06-06-93
COMPLETED: 06-08-93

SURFACE CASING: 585' OF 8 5/8"
CMTD W/170 SX LT "C", 2% C.C.,
1/4#/SX FLO-CELE; TAILED IN W/
150 SX "C", 2% C.C., 1/4#/SX FLO-CELE.

FORMATION	DEPTH
SURFACE HOLE	0- 595
SAND & CLAY	595-1200
RED BED	1200-2510
SHALE & LIME	2510-2652 RTD

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A. J. Jacques

A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 9TH DAY OF JUNE, 1993.

BECKY J. WHETSTONE
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 4/29/95

Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC

RECEIVED

STATE CORPORATION COMMISSION

AUG 19 1993

CONSERVATION DIVISION
Wichita, Kansas

JOB LOG

WELL NO. 3 H1 LEASE Wierham

TICKET NO. 345801

CUSTOMER Cheyenne Delq.

PAGE NO.

FORM 2013 R-2

ORIGINAL

JOB TYPE 8 5/8 S.P.

DATE 6-6-93

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1700							Call-out - Ready work
	2000							on Loc. - T.O.H.
	2030							Run Csg. - T.I.H.
	2050							Rig-up
	2200							Hook-up to circulate
								safety meeting
	2210							Hook-up to cmt.
	2212	2	10 bbls		✓		100	Pump preflush - H ₂ O
	2217	2-6	62 bbls		✓		150	Pump lead cmt.
	2227	6	358 bbls		✓		200	Pump tail cmt.
	2232	0			✓		0	Drop plug.
	2233	0-6			✓		0-200	Displ. - H ₂ O
	2243	0			✓		400	Plug Landed
	2244	0			✓		50-0	RELEASE PRESS
								✓ cmt back to surface APPROX. 10 bbls

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CONSERVATION DIVISION
Wichita, Kansas



JOB SUMMARY

HALLIBURTON DIVISION Eastern
 HALLIBURTON LOCATION Liberal

BILLED ON TICKET NO. 345801

WELL DATA

FIELD ORIGINAL SEC. _____ TWP. _____ RNG. _____ COUNTY _____ STATE _____

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	8 3/8	8 3/8	S.F.	595	
LINER		2 1/2				
TUBING						
OPEN HOLE			12 1/4	S.F.	595	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>8 3/8 5 1/2</u>	<u>1</u>	<u>Hawco</u>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>5 1/4 8 3/8</u>	<u>3</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>5 1/4 8 3/8</u>	<u>1</u>	<u>"</u>
HEAD <u>unifield</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER <u>Hawco weld</u>		<u>"</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-6-93</u>	DATE <u>6-6-93</u>	DATE <u>6-6-93</u>	DATE <u>6-6-93</u>
TIME <u>1700</u>	TIME <u>2000</u>	TIME <u>2030</u>	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Kinsinger</u>	<u>38242</u>	<u>Liberal</u>
<u>T. Payer</u>	<u>52947</u>	<u>Liberal</u>
<u>K. Myers</u>	<u>3625</u>	<u>Hugoton</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-^oAPI

DISPL. FLUID _____ DENSITY _____ LB/GAL-^oAPI

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN.

NE AGENT TYPE _____ GAL. _____ IN.

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.

GELLING AGENT TYPE _____ GAL.-LB. _____ IN.

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.

BREAKER-TYPE _____ GAL.-LB. _____ IN.

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT _____

DESCRIPTION OF JOB cat 8 3/8 S.P.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X John Payer

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>170</u>	<u>HOPPL</u>	<u>C</u>	<u>B</u>	<u>2% CC, 1/4 1/2 Flocc</u>	<u>2.06</u>	<u>12.1</u>
	<u>150</u>	<u>"C"</u>		<u>B</u>	<u>2% CC, 1/4 1/2 Flocc</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL. 10 BBL TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 35.2

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL. 78 97

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL. 1 13

AVERAGE RATES IN BPM _____ REMARKS 10 BBL

TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET 2.72 BBL REASON shoe joint

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 STATE CORPORATION COMMISSION
 AUG 19 1993
 CONSERVATION DIVISION
 Wichita, Kansas

CUSTOMER Chesapeake Drilling
 LEASE Wichita
 WELL NO. 2 H
 JOB TYPE oil S.P.
 DATE 6-6-93



FORM 1908 R-7

A Division of Halliburton Company

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

ATTACH TO INVOICE & TICKET NO. 345801

DISTRICT Enstean

DATE 6-6-93

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Cheyenne Drilg (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 3 HI LEASE Worham GU SEC. 29 TWP. 32 RANGE 39w
FIELD Mbaton COUNTY same STATE OK OWNED BY Hmoco

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS, MAX. ALLOW. P.S.I., SHOTS/FT.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING [] ANNULUS [] CASING [] TUBING/ANNULUS [] HYDRAULIC HORSEPOWER ORDERED []
Set 890 S.P. with 170 sks "C" Lt. wt. - 2% CC, 1/4" sk Floccle
150 sks "C" - 2% CC 1/4" sk Floccle

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice.
b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton.
d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.
e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton.
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.
SIGNED: [Signature] CUSTOMER
DATE: 6-6-93
TIME: 6:21:00 A.M./P.M.

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We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

RETAIN

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>241 Weckman</i>		COUNTY <i>Morton</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>6-1-93</i>
CHARGE TO <i>Cherokee Delq.</i>		OWNER <i>Amoco Prod.</i>	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR <i>Cherokee #2</i>	LOCATION 1 <i>Libreed</i>		CODE <i>25540</i>
CITY, STATE, ZIP		SHIPPED VIA <i>Hisco</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION 2 <i>Horton</i>	
WELL TYPE <i>02</i>	WELL CATEGORY <i>01</i>	WELL PERMIT NO. B-171185	DELIVERED TO <i>Location</i>	LOCATION 3	
TYPE AND PURPOSE OF JOB <i>010</i>		ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
<i>000-117</i>				MILEAGE	<i>10</i>	<i>mi</i>			<i>2.75</i>	<i>27</i>	<i>50</i>
<i>001-016</i>				<i>Pumping Chg</i>	<i>8</i>	<i>hrs</i>			<i>7.35</i>	<i>735</i>	<i>00</i>
<i>40</i>	<i>807.93059</i>			<i>Center-line</i>	<i>3</i>	<i>EA</i>	<i>8 7/8</i>	<i>in</i>	<i>72.00</i>	<i>216</i>	<i>00</i>
<i>350</i>	<i>890.10802</i>			<i>Weld A</i>	<i>1</i>	<i>lb</i>			<i>14.50</i>	<i>14</i>	<i>50</i>
<i>577</i>	<i>825.1219</i>			<i>Bottle</i>	<i>1</i>	<i>ea</i>	<i>8 1/2</i>		<i>45.00</i>	<i>45</i>	<i>00</i>

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-171185

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)
Joe Pappas

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Joe Pappas
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

RECEIVED
STATE CORPORATION COMMISSION
AUG 19 1993
SUB TO
APPLICABLE TAXES WILL BE ADDED TO INVOICE.
CONSERVATION DIVISION
Wichita, Kansas

EXTRA COPY

JOB LOG

WELL NO. 3HI LEASE Werkon TICKET NO. 345905

CUSTOMER Cheyenne Drilling PAGE NO. 1

JOB TYPE 5 1/2" Production casing DATE 6-8-93

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	06:00							Called out
	09:00							ON location, Rig drilling
	10:00							Safety meeting, set up Co. Trip
	15:30							Start casing, run floating equmt
	18:45							Casing on bottom
	19:05							hookup iron, rig circulating
	19:15							hookup iron, Co. Trip
	19:18	5	20				150	Start water ahead
	19:22	6	110				100	Start lead Cement
	19:42	6	35				100	Start tail Cement
	20:00						0	Shut down, wash pumps & lines
	20:05						0	Drop plug
	20:08	5	30				100	Start water displacement
	20:10	5	22				200	Cement circulated to surface
	20:14	3	10				500	Slowed rate
	20:19						700	Plug landed
	20:19						1200	Pressured up
	20:20						0	released pressure, float held
	20:30							Job Complete
								Thanks for Calling
								Halliburton, Richard @ Crew
								Slurry Circulated = 30 bbl ±
								Plug landing PSI = 700 #
								Lead Cnt = 100 #
								Average PSI = Tail Cnt = 100 #
								Displ. = 400 #
								Lead Cnt = 6 BPM
								Average Rate = Tail Cnt = 6 BPM
								Displ. = 400 BPM
								Overall = 6 BPM

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AUG 19 1993
CONSERVATION DIVISION
Wichita, Kansas

JOB SUMMARY

 HALLIBURTON DIVISION
 HALLIBURTON LOCATION

ORIGINAL

 BILLED ON TICKET NO. 45705

WELL DATA

FIELD 2811 SEC. 1 TWP. 2 RNG. 2 COUNTY McPherson STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>0</u>	<u>150</u>	<u>5 1/2</u>	<u>KB</u>	<u>1497</u>	
LINER						
TUBING	<u>0</u>	<u>24</u>	<u>2 1/2</u>	<u>KB</u>	<u>525</u>	
OPEN HOLE			<u>7 1/2</u>	<u>515</u>	<u>2627</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-2-93</u>	DATE <u>6-2-93</u>	DATE <u>6-2-93</u>	DATE <u>6-2-93</u>
TIME <u>9:30</u>	TIME <u>7:30</u>	TIME <u>17:30</u>	TIME <u>20:30</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. T. ...</u>	<u>10072</u>	<u>Liberal</u>
<u>L. W. ...</u>	<u>52438</u>	<u>Liberal</u>
<u>C. S. ...</u>	<u>2400</u>	<u>Liberal</u>
<u>K. M. ...</u>	<u>3076</u>	<u>Hugoton</u>
<u>M. H. ...</u>	<u>59010</u>	<u>Hugoton</u>
	<u>4061</u>	<u>Hugoton</u>
	<u>611</u>	<u>Hugoton</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>1/2 sect</u>	<u>1</u>	<u>H</u>
FLOAT SHOE <u>4 1/2 up</u>	<u>1</u>	<u>0</u>
GUIDE SHOE	<u>1</u>	<u>0</u>
CENTRALIZERS	<u>5</u>	<u>0</u>
BOTTOM PLUG	<u>1</u>	<u>0</u>
TOP PLUG	<u>1</u>	<u>0</u>
HEAD	<u>1</u>	<u>0</u>
PACKER		
OTHER <u>Weld A</u>	<u>1</u>	<u>0</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Central

DESCRIPTION OF JOB Site Prod

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE **X** JR Pepper

HALLIBURTON OPERATOR R. ... COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>500</u>	<u>MCC</u>	<u>C</u>	<u>B</u>	<u>1/2" Hrate</u>	<u>216</u>	<u>123</u>
<u>2</u>	<u>150</u>	<u>Prem. in H₂O</u>	<u>C</u>	<u>B</u>	<u>1/2" Hrate</u>	<u>132</u>	<u>148</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 145

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 227

ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 1677 REASON 26 30 1

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 STATE CORPORATION COMMISSION
AUG 19 1993
 CONSERVATION DIVISION
 Wichita, Kansas

 CUSTOMER: ...
 LEASE: ...
 WELL NO.: ...
 JOB TYPE: ...
 DATE: ...

**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

ORIGINAL
ATTACH TO INVOICE & TICKET NO. 345705

DISTRICT Liberat DATE 6-8-93

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Cheyenne City (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 3H I LEASE Warden SEC. 29 TWP. 32S RANGE 39W

FIELD N. Rolla COUNTY Mitchell STATE KS OWNED BY same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH <u>2525'</u>	MUD WEIGHT						
BORE HOLE <u>7 7/8"</u>							SHOTS/FT.
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement 5 1/2" Production casing w/ 300 sks HRC w/ 1/4" BK Floccate & 150 sks Premium Plus w/ 1/4" BK floccate, displace swivel tip plug to insert float w/ 12 bbls fresh water

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
- The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized representative officer of Halliburton.

I HAVE READ AND UNDERSTAND THE CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN AS CUSTOMER'S AGENT.

SIGNED _____

DATE 6-8-93

TIME 10:00 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

RETAIN

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AUG 19 1993
CONSERVATION DIVISION
Wichita, Kansas



ORIGINAL NO. 345705-8

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <i>447 Wech</i>		COUNTY <i>Morton</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION	DATE <i>6-8-93</i>
CHARGE TO <i>Cherokee Drilling</i>		OWNER	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR	LOCATION 1		CODE
CITY, STATE, ZIP		SHIPPED VIA	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION 2	CODE
WELL TYPE	WELL CATEGORY	WELL PERMIT NO.	DELIVERED TO	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB		B-	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
<i>000 117</i>				<i>MILEAGE 8400</i>	<i>1</i>	<i>mi</i>	<i>00</i>	<i>mi</i>	<i>11</i>	<i>27 50</i>
<i>21 016</i>				<i>Pump Change</i>	<i>2</i>	<i>hr</i>	<i>447</i>	<i>hr</i>		<i>1225 00</i>
<i>64-016</i>				<i>5 Super Tip Plug</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>		<i>60 00</i>
<i>12A</i>	<i>235 205</i>			<i>60 1 Shoe</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>		<i>121 00</i>
<i>24A</i>	<i>415 19251</i>			<i>insert Plug</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>		<i>110 00</i>
<i>27</i>	<i>415 19311</i>			<i>1 Plug</i>	<i>1</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>		<i>46 50</i>
<i>40</i>	<i>907 23022</i>			<i>Cont. Pieces</i>	<i>5</i>	<i>ea</i>	<i>5 1/2</i>	<i>in</i>	<i>44</i>	<i>220 00</i>
<i>350</i>	<i>890 10202</i>			<i>Well A</i>	<i>1</i>	<i>ea</i>	<i>1</i>	<i>hr</i>		<i>19 50</i>

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-

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AUG 19 1993

CONSERVATION DIVISION
Wichita, Kansas

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Richard T. ...
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

SUB TOTAL _____

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

EXTRA COPY

